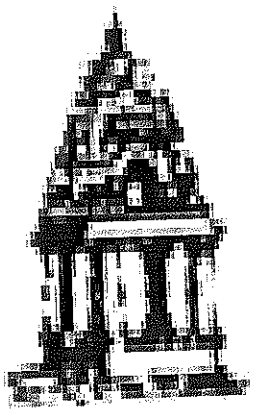
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst.Executive Engineer, Shettyhalli Sub Division,

Name of Work Repairs to Culverts and drains, in ward no.12, in Shettyhalli Sub Division

Est Cost:10.00 (Rs in Lakhs)

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Repairs to Culverts and drains, in ward no.12, in Shettyhalli Sub-Division

Est .Cost Rs. 10.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1: Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. in Hard Soil. MORTH/ Chapter 3. Page No. 141/ Item No. 19.2/ PWD SR 2015-16	Cum							
	Culverts		2	5.20	2.00	1.20	24.96		
			2	5.80	2.00	1.20	27.84		
			2	6.00	2.00	1.20	28.80		
							81.60	115.56	**9430.00**
	Basic Rate	107.00							
	Area Weightage 8%	8.56							
		115.56							
2	KSRB 4-1.4: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.86cum and fine aggregate @ 0.58cum machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2, Page No. 12/ Item No. 4.3/ PWD SR 2015-16.	Cum							
	For Culverts		2	5.20	2.00	0.15	3.12		
			2	5.80	2.00	0.15	3.48		
			2	6.00	2.00	0.15	3.60		
							10.20	5070.60	**51720.00**
	Basic Rate	4,695.00							
	Area Weightage 8%	375.60							
		5,070.60							
3	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregate @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2, Page No. 12/ Item No. 4.1/ PWD SR 2015-16	Cum							
	For Side Walls		2x2	5.20	(0.75+ 0.45)/2	0.90	11.23		
			2x2	5.80	(0.75+ 0.45)/2	0.90	12.53		
			2x2	6.00	(0.75+ 0.45)/2	0.90	12.96		
							36.72	5404.32	**198447.00**

	Basic Rate	5,004.00								
	Area Weightage 8%	400.32								
		5,404.32								
4	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1:5:3) for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/	Cum								
	For RCC Covering 1		2	5.20	1.80	0.23	4.31	Qty1		
			2	5.80	1.80	0.23	4.80	Qty1		
			2	6.00	1.80	0.23	4.97	Qty1		
							14.08	6332.04	**89130.00**	
	Basic Rate	5,863.00								
	Area Weightage 8%	469.04								
		6,332.04								
5	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification NoKBS 4.6.3. for TMT Bars Fe 415. Page No. 19/ Item No. 4.46.1/ PWD SR 2015-16.	Tonne Q								
	For Side Walls 5kgs/Sqm	2x2x2x5.2x0.90=37.44x5kg = 187.20kgs/Sqm					1.87			
	For Side Walls 5kgs/Sqm	2x2x2x6.0x0.90=41.76x5kg = 208.80kgs/Sqm					2.08			
	For Side Walls 5kgs/Sqm	2x2x2x6.2x0.90=43.20x5kg = 216.00kgs/Sqm					2.16			
	For RCC Covering Qty1 80kg/cum						11.26			
							17.37			
					Say		**1.74**	69805.80	**121462.00**	
	Basic Rate	64,635.00								
	Area Weightage 8%	5,170.80								
		69,805.80								
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2 Page No. 15/ Item No.	Sqm								
	Walls		2x4	5.20		0.90	37.44			
			2x4	5.80		0.90	41.76			
			2x4	6.00		0.90	43.20			
							122.40	306.72	**37543.00**	
	Basic Rate	284.00								
	Area Weightage 8%	22.72								
		306.72								

	Removing B.S. Slab Drain & Stacking. Page No. 25/ Item No. 5.32/ PWD SR 2015-16	Sqm							
	1st Main at Vinayaka Layout		2	145.00		0.90	261.00		
	1st A Main at Vinayaka Layout		2	148.00		0.90	266.40		
	2nd Main at Vinayaka Layout		2	150.00		0.90	270.00		
	3rd Main at Vinayaka Layout		2	158.00		0.90	284.40		
	1st Cross		2	110.00		0.90	198.00		
	2nd Cross		2	125.00		0.90	225.00		
	3rd Cross		2	133.00		0.90	239.40		
	4th Cross		2	142.00		0.90	255.60		
	4th A Cross		2	140.00		0.90	252.00		
	4th B Cross		2	130.00		0.90	234.00		
	5th Cross		2	136.00		0.90	244.80		
	6th Cross		2	120.00		0.90	216.00		
	7th Cross		2	138.00		0.90	248.40		
	7th A Cross		2	108.00		0.90	194.40		
	8th Cross		2	90.00		0.90	162.00		
	1st Cross at Babbanna Layout		2	135.00		0.90	243.00		
	2nd Cross at Babbanna Layout		2	160.00		0.90	288.00		
	3rd Cross at Babbanna Layout		2	140.00		0.90	252.00		
	4th Cross at Babbanna Layout		2	110.00		0.90	198.00		
	Kuvempu College Road		2	58.00		0.90	104.40		
							4636.80		
			Consider 40%				**1854.72**	63.72	**118183.00**
	Basic Rate	59.00							
	Area Weightage 8%	4.72							
		63.72							
8	KSRRB 300-1: Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH/ Chapter 3. Page No. 141/ Item No. 19.1/ PWD SR 2015-16	Cum							
	1st Main at Vinayaka Layout		2	145.00	0.45	0.30	39.15		
	1st A Main at Vinayaka Layout		2	148.00	0.45	0.45	59.94		
	2nd Main at Vinayaka Layout		2	150.00	0.45	0.30	40.50		
	3rd Main at Vinayaka Layout		2	158.00	0.45	0.40	56.88		
	1st Cross		2	110.00	0.45	0.40	39.60		
	2nd Cross		2	125.00	0.45	0.45	50.63		
	3rd Cross		2	133.00	0.45	0.30	35.91		
	4th Cross		2	142.00	0.45	0.40	51.12		
	4th A Cross		2	140.00	0.45	0.30	37.80		
	4th B Cross		2	130.00	0.45	0.25	29.25		
	5th Cross		2	136.00	0.45	0.45	55.08		
	6th Cross		2	120.00	0.45	0.45	48.60		
	7th Cross		2	138.00	0.45	0.45	55.89		
	7th A Cross		2	108.00	0.45	0.40	38.88		
	8th Cross		2	90.00	0.45	0.30	24.30		
	1st Cross at Babbanna Layout		2	135.00	0.45	0.90	109.35		
	2nd Cross at Babbanna Layout		2	160.00	0.45	0.90	129.60		
	3rd Cross at Babbanna Layout		2	140.00	0.45	0.90	113.40		
	4th Cross at Babbanna Layout		2	110.00	0.45	0.90	89.10		
	Kuvempu College Road		2	58.00	0.45	0.90	104.40		

							1209.38	83.16	100572.00
	Basic Rate	77.00							
	Area Weightage 8%	6.16							
		83.16							
9	Refixing stone Slabs of Drains & pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2015-16	Sqm							
	Qty Vide Item No-1						1854.72	78.84	146226.00
	Basic Rate	73.00							
	Area Weightage 8%	5.84							
		78.84							
10	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b)Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P.150, I.no.18.57/1, PWD SR 2015-16)	Cum							
	Qty Vide Item No=1						1402.58		
	Qty Limited to						1402.58	72.71	101975.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	62.20							
		67.32							
	Area Weightage 8%	5.39							
	Total	**72.71**							
8	Miscellaneous and unforseen Charges								312
									25281
9	Add 1% For Quality Control Test.								~~25000.00~~
								Total	1000000.00
	(Rupees Ten Lakhs Only)								

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2015-16
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ.EE/DD/AS/06/2015-16 ದಿನಾಂಕ : 04/1/2016
ರೂ.10.00Lakhs (Rupees Ten lakhs only)
ಆಂದಾಜು ಪಟ್ಟಿಗೆ ಅನುಮತಿ ನೀಡಿದೆ

ನಂ.EE/DD/TS/06/2015-16 ದಿನಾಂಕ : 04/1/2016
ರೂ.10.00Lakhs (Rupees ten lakhs only)
ಗೆ ಅಂದಾಜು ಪಟ್ಟಿ ಅನುಮತಿ ನೀಡಿದೆ

Repair's to culvert's and drains. in ward. No-12 in S. S. sub-Divisio